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MKUNING CL.I.

120-4-3/35

AUTHORS: Bigorkov, S.S. Malkin, L.Z., Petrzhak, K.A., Yakovlev, v.A.

and Yakunin, M.I.

TITTE: Ionisation Chambers for Alpha Particle Counting

(Ionizatsiony kamery dlya scheta al'fa-chastits)

Pribory i Tekhnika Eksperimenta, 1957, No.4, pp. 16 - 19 (USSR) FERIODICAL:

ABSTRACT: The construction and properties of 5 ionisation chambers for alpha particle counting are described. no.1: A universal camera for alpha particles emitted within a solid angle of 217 (Fig.1). This camera is used for measurements on alpha-active materials deposited on one or both sides of a thin plate. It can also be used to estimate the degree of alpha-activisation of the inner surfaces of hemispherical platinum cups after various chemical procedures. No.2: A camera for measurements in a solid angle which is less than, or equal to, 27 (Fig. 4).

A camera for measuring alpha activities of liquids No.3: (Fig. 5).

No.4: A camera with a solid angle $(0.01 - 0.001) \times 2\pi$ (Fig.6).

No.5: An argon filled camera (Fig.7). This is used to

measure intensities of the order of 2 x 105 counts/min and also

Card1/2

120-4-3/35

Ionisation Chambers for Alpha Particle Counting.

in the measurement of alpha activity on a high bets background. Pressure of the argon is about 1 atm.

The mechanical design of the 5 chambers are shown in the figures quoted above.

There are 7 figures and 3 references, 1 of which is Slavic

ASSOCIATION:

Khlopin Radiation Institute Ac.Sc. USSR:

SUBMITTED:

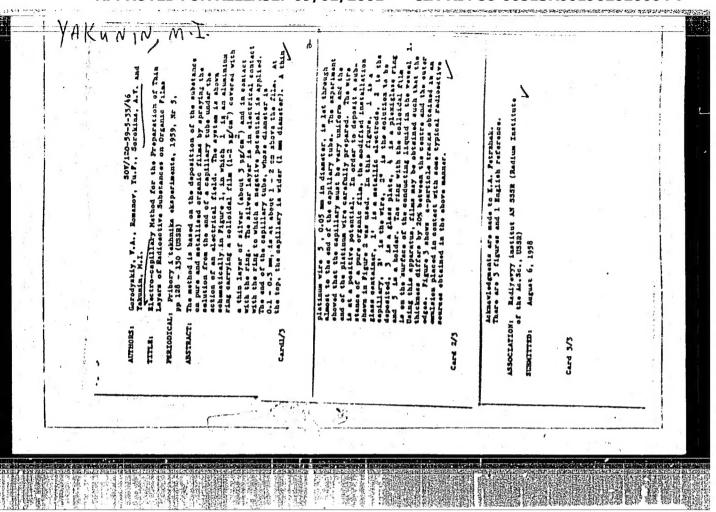
(Radiyevyy institut im. V.G. Khlopina AN SSSR) September 26, 1956.

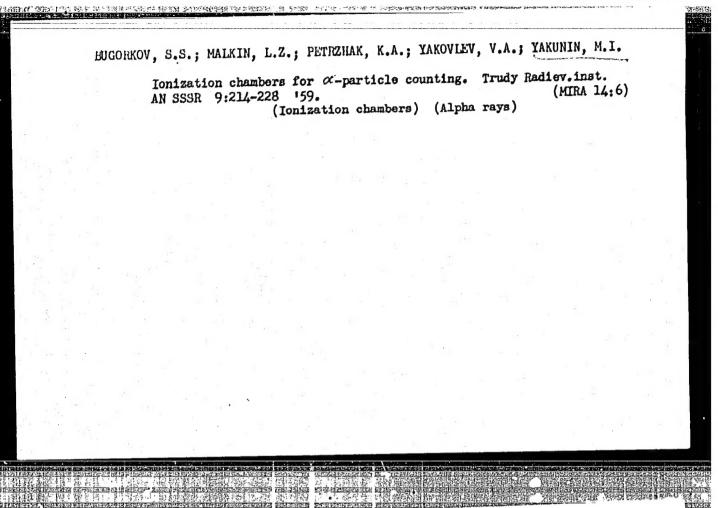
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						m rank SSER. Radiyevyy institut	t. II (Transactions of the Radius Institute, Academy of Sciences O, Marcow, Indian 18 5538, 1040, 267 p. Errata slip insacted. Occles patitude.	Perfillor, Doctor of Physical and Mathematical Sciences: Ed. G.M. Aron; Tech. Ed.: A.V. Seirnova.	The values is intended for pi	The book represents volume 9 of the Transactions of the Radium nears the results of studies conducted at the Institute chiefly. 3, 1956. There are a mander of articles desired with the study of contracting with perfects of different sentifies and the bight to hundreds of MeV. Others test different sentifies and the higher to hundreds of MeV.	An analysis of state, and other problems consocied with a mediator with state of the migration of the migration of the migration of equipment and of the results of the results of the migration of the migration of the results of the	Petranek, and Ju.F. Sonanov.	Mailyla, kur. End. Peterrais, and T.A. Yaharisw. Study of the Effect of Alpha Entitle Reflection on Passacity in a Charley with a Solid Angle - 2 H	Abviev, and M.I.		tributions of Disintegrated Ledon Products in and in Appendes Milroout Filler	Busanow, and S.1. Thepanow.	Accumulation of the Insenter Product in the Prench Sacky			10000 0 B 10000	alva, D.E. Miner of Politic on the Dependency of a Perticulenty maked backets analysis. Lainly - American of solutions Dencetors, bloading for filling	A STATE OF STATE OF			





S/056/61/041/006/017/054 B102/B138

AUTHORS: Petrzhak, K. A., Yakunin, M. I.

TITLE: Investigation of the alpha activity of natural platinum

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 41.

PERIODICAL: Zhurnal eksperimented to no. 6(12), 1961, 1780-1782

Pt 190 which, according to Ref. 4 (see below), has a half-life of (6.9+0.5)·10¹¹ years and an alpha energy of 3.11+0.03 Mev. In order to verify these data the authors examined the alpha spectrum of natural verify these data the authors examined the alpha spectrum of natural verify these data the authors examined the alpha spectrum of natural verify these data the authors examined the alpha spectrum of natural verify these data the authors examined the alpha sersitivity, filled with platinum with z pulsed ionization chamber of high sersitivity, filled with platinum with z pulsed ionization chamber of high sersitivity, filled with platinum with z pulsed ionization chamber of high sersitivity, filled with platinum with z pulsed ionization chamber of high sersitivity, filled with platinum with z pulsed ionization chamber of high sersitivity, filled with platinum with z pulsed ionization chamber of high sersitivity, filled with platinum with z pulsed ionization chamber of high sersitivity, filled with platinum with z pulsed ionization chamber of high sersitivity, filled with platinum with z pulsed ionization chamber of high sersitivity, filled with platinum with z pulsed ionization chamber of high sersitivity, filled with platinum with z pulsed ionization chamber of high sersitivity, filled with platinum with z pulsed ionization chamber of high sersitivity, filled with platinum with z pulsed ionization chamber of high sersitivity, filled with platinum with z pulsed ionization chamber of high sersitivity, filled with platinum with z pulsed ionization chamber of high sersitivity, filled with platinum with z pulsed ionization chamber of high sersitivity with platinum with z pulsed ionization chamber of high sersitivity with platinum with z pulsed ionization chamber of high sersitivity with z pulsed ionization chamber of high sersitivity with platinum with z pulsed ionization chamber of high sersitivity with z pulsed ionization chamber of high sersitivity with z pulsed ionization chamber of high sersitivity with z pu

S/056/61/041/006/017/054 B102/B138

Investigation of the alpha activity ...

Pt 190, four other peaks were found: peak A with 2.50 Mev, which could be caused by α-particles from Sm 146, B with 2.75 Mev, C with ~2.85 Mev, and D with ~3.40 Mev. B is assumed to be caused by Pt 192 with a halflife of 10 14 years. There are 1 figure and 5 non-Soviet references. The three references to English-language publications read as follows: Ref. 3: T. P. Kohman. Phys. Rev., 73, 21, 1948; Ref. 4: R. D. Macfarlane, T. F. Kohman. Phys. Rev., 121, 1758, 1961; Ref. 5: D. C. Dunlavei, G. T. Seaborg. Phys. Rev., 92, 206, 1953.

ASSOCIATION: Radiyevyy institut Akademii nauk SSSR (Radium Institute of

the Academy of Sciences USSR)

SUBMITTED: July 17, 1961

Card 2/2

S/120/62/000/002/032/047 E194/E435

Yakunin, M.I. AUTHOR:

Cathode sputtering of substances on large surfaces PERIODICAL: Pribory i tekhnika eksperimenta, no.2, 1962, 139-140

Uniform thin films of materials are required for Such films α-spectroscopy with high-power ionization chambers. may be produced by vaporizing in vacuo, but the cathode sputtering method is much better, particularly if the arrangement of the equipment is cylindrical rather than flat. Uniform films of about 0.3 m² area were produced which were very uniform, of excellent micro-structure and acceptable transparency. The tube used was about 1 m long and 16 cm diameter with a central wire cathode which either consisted of, or was coated with, The pressure in the chamber was maintained at 0.02 mm Hg by continuous evacuation combined with The voltage applied to the wire was 1.5 to 2.5 kV giving a current of 0.12 mA per cm length of run. With these optimum conditions the following amounts of material were sputtered from 1 cm length of cathode in 1 hour: Card 1/2

Cathode sputtering ...

S/120/62/000/002/032/047 E194/E435

4 mg of copper, 8 mg of platinum, 0.3 mg of samarium. There is 1 figure.

ASSOCIATION: Radiyevyy institut AN SSSR (Radium Institute AS USSR)

SUBMITTED: July 17, 1961

Card 2/2

IVANOV, R.B.; KRIVOKHATSKIY, A.S.; KRIZHANSKIY, L.M.; NEDOVESOV, V.G.; YAKUNIN, M.I.

Determining (T_d) Pu²⁴¹ half-life period. Atdm. energ. 15 no.4: 322-323 0 '63. (MIRA 16:10)

NIKOLAYEV, D.S.; LAZAREV, K.F.; KORN, O.P.; YAKUNIN, M.I.; DROZEZHIN, V.M.; SAMARTSEVA, A.G.

Isotopic composition of uranium in the waters and ediments of the Black and Azor Seas. Dokl. AN SSSR 165 no.1:187-89 N '65. (MIRA 18:10)

1. Submitted April 10, 1965.

KULAKOV, Yu.N.; YAKUNIN. M.K.

Using the blasting method for mining without supports in the Prokopievskugol' Trust Mine no.5-6. Ugol' 35 no.9:11-14 S '60. (MIRA 13:10)

Shakhta No.5-6 tresta Prokop'yevskugol' (Kuzbass) (for Kulakow).
 Eksperimental'naya gruppa Kuzbasskogo tresta Prokop'yevskugol' (for Yakunin).
 (Kuznetsk Basin--Coal mines and mining)
 (Blasting)

YAKUNIN, M.K., gornyy inzh.

Experience in mining thick steeply dipping coal seams with the blasting method without the presence of miners in the stopes.
Ugol' 37 no.6:17-19 Je '62. (MIRA 15:7)

YAKUNIN, M.K., gornyy inzh.

Selection of variations and calculation of basic parameters in using blasting to work seams without men in the pit. Ugol' 38 no.6:21-25 Je '63. (MIRA 16:8)

1. VzryvPEU Kombinata ugol'nykh predpriyatiy Kuznetskogo kamennougol'nogo basseyna.
(Blasting)

 YAKUNIN, M.K., gornyy inshener; SUMIN, I.P., gornyy inshener

Upraising by the method of detonating charges in long holes. Varyv. delo no.51/6:317-324 *63. (MIRA 16:6)

1. Proizvodstvenno-eksperimentalinoye upravleniye vzryvnykh rabot kombinata Kuzbassugol.

(Kuznetsk Basin-Mining engineering)

(Boring) (Blasting)

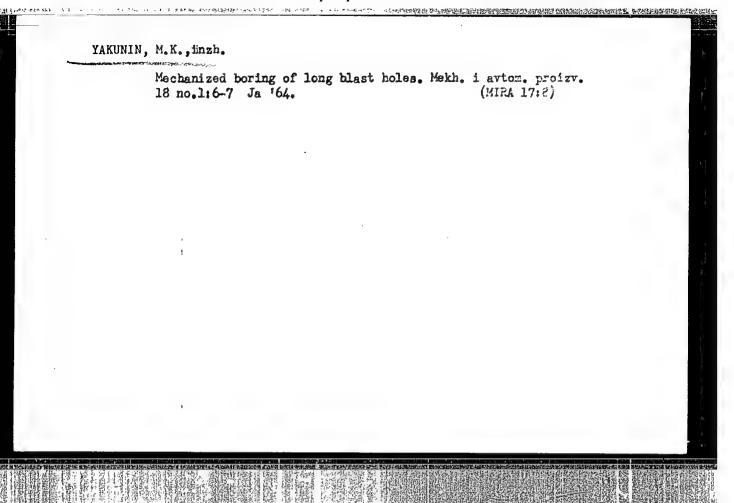
YAKUNIN M.K. inzh.

Blasting method of mining coal in longwalls with supporting the working face. Vzrjv. delo no.51/8:324-331 163. (MIRA 16:6)

1. Proisvodstvenno-exsperimental rabot kombinata Kuzbassugoli.

(Kuznetsk Basin-Coal mines and mining)

(Blasting) 1. Proisvodstvenno-eksperimentalinoye upravleniye vzryvnykh



YAKUNIN, M.K.; SUMIN, I.P.

Decreasing coal losses in manless long-hole mining, Ugol' 40 no.6: 24 Je '65. (MIRA 18:7)

1. VzryvPEU kombinata Kuzbassugoli.

YAKIRIN, MAP

GALUZO, I.G., prof.; YAKUNIN, M.P., mladshiy nauchnyy sotrudnik.

Natural foci of fowl spirochetosis. Veterinariia 34 no.10:45-47 0 '57. (MIRA 10:11)

1. Akademiya nauk Kasakhskoy SSR.
(Spirochetosis) (Poultry-Diseases and pests)

Discovering mange mites on the Asiatic ibex. Trudy Inst. zool.

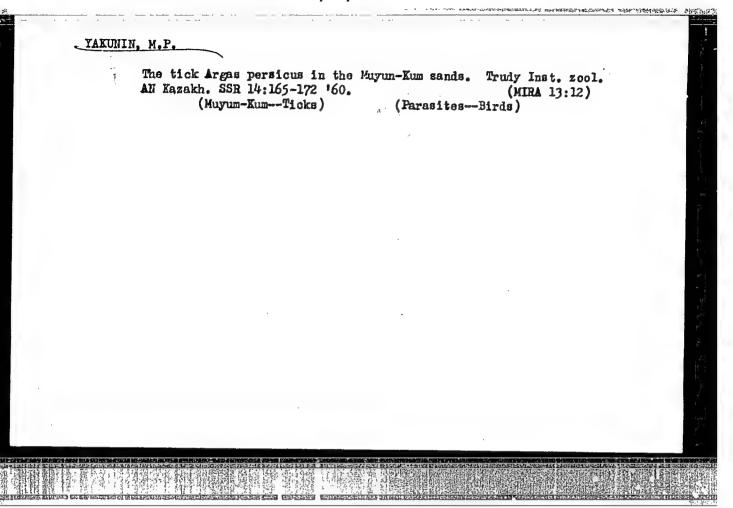
AN Kazakh. SSR 9:241 '58. (MIRA 11:7)

(Ketmen' range--Mites) (Parasites--Ibex)

YAKUNIN, M.P.

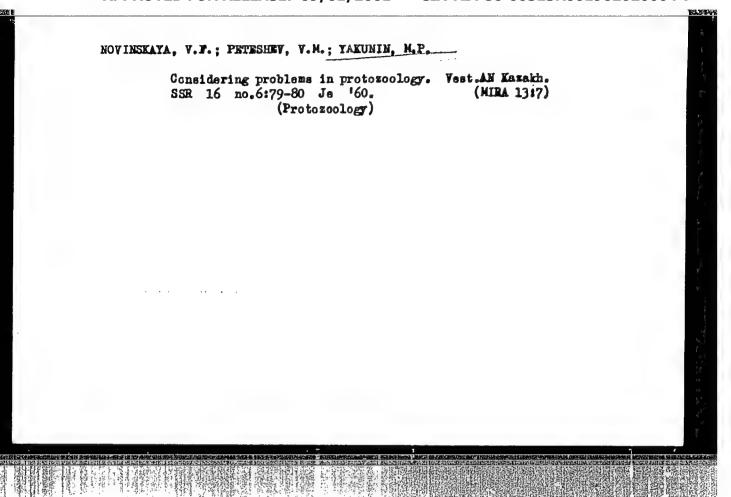
"Natural Foci of Spirochetosis in in Birds."

report presented at the Conference on the Natural Foci of Diseases and Problems of Parasitology. Alma Ata, Sep 1959.



YAKUNIN, M.P.

Distribution of the tick Argas reflexus in Kazakhstan. Trudy Inst.zool.AN Kazakh.SSR 12:221-225 '60. (MIMA 13:7) (Kazakhstan--Ticks as carriers of disease) (Parasites--Birds)



YAKUNIN, M. P.

Spirochetes of wild birds. Trudy Inst. zool. All Kazakh. SSR 16: 15-22 162. (MIRA 15:10)

(Kazakhstan-Spirochetosis) (Kazakhstan-Parasites-Birds)

YAKUNIN, N.K., kandidat tekhnicheskikh nauk.

Once more on lengitudinal wood sawing with circular saws.

Der. prom. 5 no.3:11-15 Mr '56. (HIRA 9:7)

1. TSentral'nyy nauchne-issledovatel'skiy institut mekhanicheskoy obrabetki drevesiny. (Sawmills)

YAKUNIN, N.K., kandidat tekhnicheskikh nauk.

Circular saws for machines with hand feed. Der.prom. 5 no.7: 23-24 J1 '56. (MLRA 9:9)

1.TSentral'nyy nauchno-issledovatel'skiy institut mekhanicheskoy obrabotki drevesiny.

(Saws)

YAKUNIN, N.K., kand.tekhn.nauk

What are the results of high-speed sawing with decreased consumption of power? Der.prom. 7 no.9:11-13 S *58. (MIRA 11:11)

1. TSentral'nyy nauchno-issledovatel'skiy institut mekhanicheskoy obrahotki drevesiny.

(Sawmills)

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YAKUNIN, N.K., kand.tekhn.nauk; BEKKER, I.G., inzh.; SOROKIN, I.A., inzh.

Sawmills with multiple circular saws for small timber. Der.pron. 8 no.4:16-17 Ap 159. (MIRA 12:6)

1. TSentral nyy nauchno-issledovatel skiy institut mekhanicheskoy obrabotki drevesiny (for Yakunin). 2. Giprolesmash (for Sorokin). (Sawmills)

YAKUNIN, Nikolay Konstantinovich, kand.tokhn.nauk; KHUDYAKOV, V.A., red.; PLESHANOVA, M.I., red.izd-va; KUZNETSOVA, A.I., tekhn.red.

[Sawing small timber on multiple-saw circular sawing machines]
Raspilovka tonkomernogo lesa na mnogopil'nykh kruglopil'nykh
stankakh. Moskva, Goslesbumizdat, 1960. 82 p. (MIRA 13:9)
(Circular saws)

YAKUNIN, Nikolay Konstantinovich, kand. tekhn. nauk; ORRAZTSOV, S.A., red.; PROTANSKAYA, I.V., red. izd-va; PARAKHINA, N.L., tekhn. red.

[Circular saws and their use] Kruglye pily i ikh ekspluatatsiia. Moskva, Goslesbumizdat, 1960. 151 p. (MIRA 15:3) (Circular saws)

YAKUNIN, N.K., kand.tekhn.nauk

Systems for lengthwise sawing of hardwood logs with circular saws. Der.prom. 9 no.3:9-11 Mr 160.

(MIRA 13:6)

1. TSentral'nyy nauchno-issledovatel'skiy institut mekhanicheskoy obrabotki dereva.
(Lumber)

YAKUNIN, N.K., kand.tekhn.nauk

Bystoms for ripping hardwoods with circular saws. Der.prom. 9 no.4:8-10 Ap '60. (MIRA 13:9)

1. TSentral 'nyy nauchno-issledovatel skiy institut mekhanicheskoy obrabotki dereva.

(Circular saws) (Hardwoods)

YAKUNIN, N.K., kand.tekhn.nauk

"Sawing of wood with smooth-finish circular saws" by M.I.Peklo.
Reviewed by N.K. !&kunin. Der. prom. 10 no.8:27-29 &g '61.

(Gircular caws)
(Peklo, M.M.)

YAKUNIN, N.K., kand.tekhn.nauk

Work of the Scientific Research Institute of Woodworking
Machinery during the period between the 21st and 22d
Congress of the CPSU. Der.prom. 10 no.10:3-5 0 61. (MIRA 14:9)

1. Nauchno-issledovatel skiy institut derevobbrabatyvayushchego
mashinostroyeniya.

(Woodworking machinery).

GAFANOVICH, V.S.; YAKUNIN, N.Ya.

Technological comparison analysis of the performance of circular multiple-unit sawmills in case of a constant feed rate and its automatic control. Der.prom. 11 no.11:3-7 N '62. (MIRA 15:12)

1. Moskovskiy lesotekhnicheskiy institut (for Gafanovich). 2. Nauchnoissledovatel¹skiy institut derevoovrabatyvayushchego mashinostroyeniya (for Yakunin).

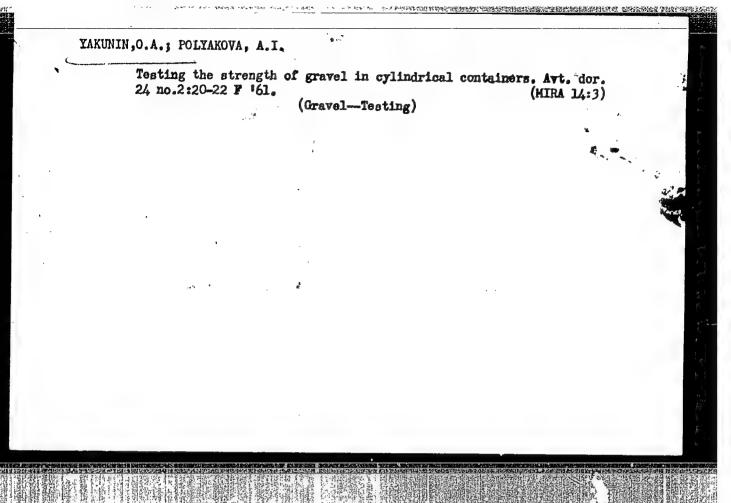
(Circular saws-Testing)

VOLKOV, M.I., prof.; IVANOV, F.M.kand.tekhn.nauk; KLIMASHEV, F.S.,inzh.; KOROLEV, I.V., inzh.; KURIENKOV, B.I., inzh.; MYSHKOVSKAYA, S.A., kand.tekhn.nauk; NEKRASOV, V.K., kand.tekhn.nauk; SPERAHTOV, M.A., kand.tekhn.nauk; YAKUNIN, O.A., inzh.; MOTYLEV, Yu.L., rqd.; LAKHMAN, F.Ye., tekhn.red.

[Metallurgical slags in road construction] Metallurgicheskie shlaki v dorozhnom stroitel'stve. Moskva, Nauchno-tekhn.izd-vo M-va avtomobil'nogo transp. i shosseinykh dorog RSFSR, 1959.

(Boad materials) (Slag)

YAKUNIN, O. A.: Master Tech Sci (diss) -- "Slabs, curbing, and piping for road construction made of blast-furnace slag". Moscow, 1958. 19 pp (Moscow Automobile and Road Inst), 150 copies (KL, No 13, 1959, 108)



YAKUNIN, P., gvardii mayor

Teaching officers to drive automobiles. Voen. vest. 39 no. 1:54-58 Ja '60. (MIRA 14:2)

(Russia-Army-Officers) (Automobile drivers)

THEUHIH, P. H.

"Casting Steel Parts in Steel Molds"
Peredovaya Tekhnologiya Liteynogo Proizvodstva. Moskva-Sverdlovsk, No 3, 1953, 138-144.

Describes an experiment at the 'Krasnoye Sormovo' mill on casting steel parts weighing from 10 to 7,000 kg. Up to 300 castings of medium and large dimensions can be made from a single mold. Electric welding seals fissures that are formed in the molds. A saving in metal consumption and labor was achieved. (RZhKhim, No 3, 1955)

SO: Sum No 845, 7 Mar 56

Yariable cross-section slag pocket. Lit.proizv. no.6:28 Je '56.
(MLRA 9:8)

(Youndry machinery and supplies)

SOV/137-57-11-21464

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 11, p 116 (USSR)

AUTHOR: Yakunin, P.M.

TITLE: Casting Heads With Vertical Feeders (Pribyli s pitatelyami

vertikal'nogo napravleniya)

PERIODICAL: V sb.: Novoye v liteyn. proizve. Nr 2, Gor'kiy, Knigoizdat,

1957, pp 204-206

ABSTRACT: Directional vertical sprues for delivery of liquid metal to

closed spheroidal casting heads are described. They have significant advantages over sprues delivering the metal in the

horizontal plane.

E.Sh.

Card 1/1

AUTHOR:

Yakunin, P.M., Engineer

SOV-128-58-7-12/20

TITLE:

Feeder Bosses (Pitayushchiye bobyshki)

PERIODICAL:

Liteynoye proizvodstvo, 1958, Nr 7, p 26 (USSR)

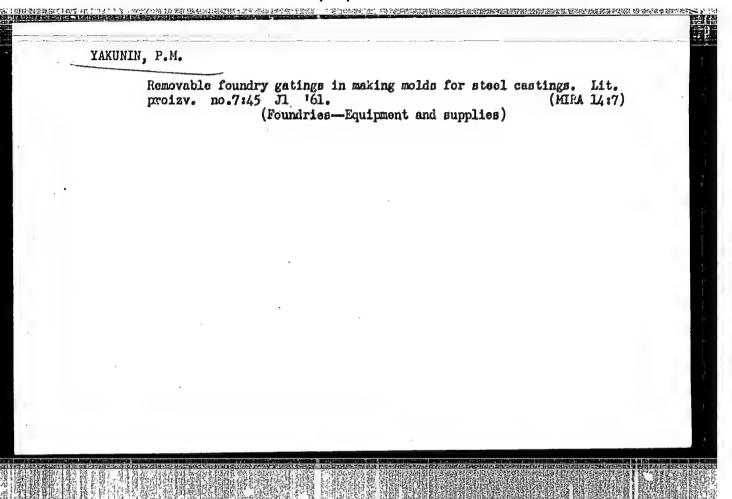
ABSTRACT:

The described and illustrated feeder bosses, used on runner gates in the new feundry of the plant "Krasnoye Sormovo", have fully eliminated the usual perceity caused by feeders with—out feeding heads in spots where such a feeder is connected to

the casting. There are 2 diagrams.

1. Metals-Casting 2. Cantings-Porcelty

Card 1/1



VEL'TMAN, R.P.; ZHUKOVSKIY, L.I.; PONOMAREV, L.Y..; VEMYAN, A.Zh.;
BENENSON, M.P.; ZALMANENOK, V.S.; KRUPENKO, T.I.; BABICH, Z.Ye.;
GUTMAN, L.B.; ALIMOV, T.U.; YAKUNIN, P.N.; KRYZHANOVSKAYA, N.L.;
AKSEL'DORF, A.L.; MUSINA, S.A.; KLEYF, A.D.; LUTSEVICH, E.V.;
LEVINSON, O.S.; TURBINA, N.S.

Brief reports. Sov. med. 28 no.10:144-148 0 '65. (MIRA 18:11)

1. Kiyevskiy institut tuberkuleza i grudnoy khirurgii (for Vel'tman, Zhukovskiy). 2. 3-ya kafedra khirurgii TSentral'nogo instituta usovershenstvovaniya vrachey, Moskva (for Ponomarev, Vemyan, Benenson). 3. Kafedra propedevticheskoy terapii Grodnenskogo meditsinskogo instituta i 1-ya klinicheskaya bol'nitsa imeni Solov'yeva, Grodno (for Zalmanenok, Krupenko). 4. Ukrainskiy nauchno-issledovatel'skiy institut okhrany materinstva i detstva imeni Buyko, Kiyev (for Babich, Gutman). 5. Klinika gospital'noy khirurgii Andizhanskogo meditsinskogo instituta (for Alimov). 6. Kafedra voyenno-polevoy terapii Voyenno-meditsinskoy ordena Lenina akademii imeni Kirova, Leningrad (for Mitropol'skiy, Latysh, Murchakova). 7. Kafedra urologii I Moskovskogo ordena Lenina meditsinskogo instituta (for Aksel'dorf). 8. 4-ya infektsionnaya klinicheskaya bol'nitsa Ufy (for Musina). 9. Chernovitskaya detskaya oblastnaya klinicheskaya bol'nitsa (for Kleyf). 10. Klinika obshchey khirurgii lechebnogo fakul'teta I Moskovskogo meditsinskogo instituta imeni Sechenova i patologoanatomicheskoye otdeleniye klinicheskoy bol!nitsy No.23 imeni (Cont. next card) Medsantrud, Moskva (for Lutsevich, Levinson).

VEL'TMAN, R.P.; (Continued) Card 2:

11. Gematologicheskaya klinika TSentral'nogo ordena Lenina instituta gematologii i perelivaniya krovi, Moskva (for Turbina).

Types of temperature curves in Q fever. Klin.med. 35 [i.e.34] no.1 Supplement:38 Ja '57. (Q FEVER)

YAKUNIN, P.N.

Peculiarities of the clinical aspects and treatment of enterocolitis and bacterial dysentery accompanied by lambliasis. Zdrav.Tadsh. (MIRA 12:11)
6 no.4:41-44 J1-Ag '59.

1. I2 N-skogo voyannogo gospitalya. (INTESTINES—DISHASES) (DYSENTERY) (GIARDIASIS)

Case of obstructive jaundice caused by Ascaris. Zdrav. Tedzh. 7
(MIRA 13:10)
no. 2:57-58 Mr-Ap 160.
(JAUNDICE) (ASCARIDS AND ASCARIASIS)

YAKUNIN, P.N.

Clinical aspects of combined forms of bacterial dysentery and giardiasis in southern Uzbekistan. Mod. zhur. Uzb. no.4: 24-26 Ap '60. (MIRA 15:3)

(UZBEKISTAN—DYSENTERY) (UZBEKISTAN—GIARDI**ASIS**)

YAKUNIN, P.N.

Clinical aspects of Q fever (as revealed by observations in Termez).

Med. zhur. Uzb. no.3:17-21 Mr '61.

(TERMEZ—Q FEVER)

(MIRA 14:5)

YAKUNIN, P.N.

Duration of the course of infectious hepatitis under lot climatic conditions (southern Uzbekistan). Med. zhur. Uzb. no.5:40-42 My 161.

(UZBEKISTAN_HEPATITIS, INFECTIOUS)

KRONGAUZ, A.N., PARSHIN, I.M., PROKSH, V.R., GROMOV, Yu.D., YAKUNIN, V.F.

Universal condenser desimeter for roentgen and gamma irradiations. Vest. rent. i rad. 37 no.5160-63 S-0 '62. (MIRA 17:12)

l. Is dozimetricheskogo otdela (zaveduyushchiy - dotsent A.N. Krongauz) i eksperimental'nykh masterskikh (direktor I.M. Parshin) Gosuderstvennogo nauchno-issledovatel'skogo rentgeno-radiolc-geneskogo instituta (direktor - prof. I.G. Lagunova).

RUBTSOV, M.K.; YELIASHVILI, A.I., inzh.; PASHCHENKO, I.N., inzh.; YAKUNIN, V.I., inzh.; MERKULOV, Ye.M., inzh., obshchiy red.; GOLUBEVA, I.A., red.; USHKOVA, M., tekhn.red.

[Simplest methods for making bricks] Prosteishie sposoby izgotovleniia kirpicha. Moskva, 1958. 69 p. (MIRA 12:8)

1. Russia (1923- U.S.S.R.) Ministerstvo seliskogo khozyaystva.
Upravleniye kapitalinogo stroitelistva.
(Brickwaking)

LAPINSKIY, L.G., inzh.; MERKULOV, Ye.Ye., inzh.; PASHCHENKO, I.N., inzh.; YAKUNIN. V.I., inzh.; GOLUHEVA, I.A., red.; POLESITSKAYA, S.M., tekhn. red.

[Structural comenting materials] Stroitel'nye rastvory. Moskva, 1959. 22 p. (MIRA 14:5)

1. Russia (1923- U.S.S.R.) Ministerstvo seliskogo khozyaystva. Normativno-issledovateliskaya stantsiya. (Plaster) (Mortar)

11(0)

sov/93-58-10-13/19

AUTHOR:

Nikolayev, V.V., Sushchenko, Ye.G., Yufin, V.A., and Yakunin, V.V.

TITE: Radioactive Densimeter for Gravity Control on Pipelines Simulteneously Carrying Various Batches of Petroleum Products (Radioaktivnyy plotnomer dlya izmereniya plotnosti nefteproduktov v truboprovodakh pri posledovatel'noy perekachke)

PERIODICAL: Neftyanoye khozyaystvo, 1958, ANr 10, pp 58-62 (USSR)

ABSTRACT: Radioactive densimeters for measuring the gravity of the various petroleum products simultaneously carried by pipelines have already been designed in the United States [Ref 1] and in the Soviet Union. The GP-1 densimeter, designed by the VNIINP Institute and described in the literature (Ref 2], had a number of defects which were eliminated in the PZhR-2 densimeter (Fig. 1) designed by the NII Teplopribor. The PZhR-2 Model consists of a radioactive source mounted on a disc and rotated by a synchronous motor. The gamma rays from the source alternately pass through the test fluid and the compensating wedge and hit a scintillation counter. The electric impulses emerging in the counter are summed up on the integration cell from which a sinusoidal signal of unbalance is obtained. The signal of unbalance is amplified by an amplifier and with the aid of a phase-sensitive

Card 1/2

sov/93-58-10-13/19

· Radioactive Densimeter for Gravity Control (Cont.)

instrument rotates a reversible motor which shifts the compensating wedge until the streams of radioactive rays passing through the test fluid and the compensating wedge are balanced. The compensating wedge is shifted simultaneously with the core of the induction coil which masters the telemetric system of the secondary instrument. The distance the compensating wedge is moved from the neutral position is directly proportional to the variation in the density of the petroleum product. (Fig. 2) shows how a PZhR-2 densimeter is employed on a pipeline of 150 mm in diameter carrying three different petroleum products. In this case the data were recorded by an EPID-03 type secondary instrument, but when it is necessary to record the change in density with respect to time the EPID-03 unit must be replaced by a DSR instrument. A record of change in density with respect to time is shown by (Fig. 3) and the percentage of error is given in (Table 1). The authors conclude that the PZhR-2 densimeter operates within an accuracy of 0.5 percent (0.005 g/cu cm) and that the accuracy can be improved further by stabilizing the intensity of the electric feed. The PZhR-2 unit can be employed on pipelines of 100-500 mm in diameter. It will be produced serially in 1959. There are 3 figures, 1 table, and 2 references, 1 of which is Soviet and 1 English.

Card 2/2

VASIL'YEV, A.A., inzh.; YAKUNINA, V.V., inzh.

Give more attention to the machinery for the maintenance and repair of roads and airports. Stroi. 1 dor. mash. 10 no.3: 25-28 Mr '65. (MIRA 18:5)

YAKUNIN, Ya.K., kand.tekhn.nauk; KHASDAN, S.M., inzh.

Stability and vibration of circuler saw disks during operation.
Der.prom. 6 no.8:11-14 Ag '57.

1. TSentral'nyy nauchno-issledovatel'skiy institut mekhanicheskoy obrabotki dereva.

(Saws)

YAKUNIN, YA, K., YAKUNIN, YA, K.,

Stability and vibration of circular saw disks during operation. Der.
(MIRA 10:11)
prom. 6 no.9:14-15 S '57.
(Saws--Vibration)

TAKUNIN, Yo.

Wooden vats for processing buttons. Mias.ind.SSSR 25 no.2:59 '54.

(NIRA 7:5)

1. Khar'kovskiy myasokombinat. (Meat industry—By-products)

TAKUNIN, Ye. An electric heater instead of a furnace. Mias.ind. SSSR 26 no.1:58 1:55. 1. Kharkovskiy myasekombinat. (Meat industry—By-products)

YAKUNIN, Yu., podpolkovnik, kand.voyen.nauk

Forestall the deployment of the enemy and you will win the battle. Voen. vest. 40 no. 3:16-19 Mr '61. (MIRA 14:2)

(Tank warfare)

YAKUNIN, Yu.A.

YAKUNIN, Tu.A.

Clinical aspects of recurrent polyneuritis in children. Pediatria no.3:59-61 My-Je '55.

(MLRA 8:10)

1. Iz kliniki nervnykh bolezney (zav.prof. D.S.Futer)
Pediatricheskogo instituta Ministerstva zdravookhraneniya RSFSR
(dir. V.N.Karachevtseva) na baze 1-y Moskovskoy detskoy klinicheskoy bol'nitsy (glavnyy wrach--zasluzhennyy wrach RSFSR
E.V.Prokhorovich)
(POLYNEURITIS, in infant and child
recurrent, clin.aspects)

。 1. 1637年1月至秦秋年1月至6日至1757年18月12日至1757年18月12日至1757年18月12日至1757年18月12日至1757年18月12日至1757年18月12日至1757年18月12日至1757年1

NAZAROVA-YAKIR, Mefir' Markovna; YAKUNIN, Yuriy Alekseyevich

[Principal problems in the clinical aspects, differential diagnosis, and medical treatment of poliomyelitis] Osnovnye voprosy kliniki, diferentsial noi diagnostiki i lecheniia poliomielita. Moskva, (MLRA 9:10) Medgiz, 1956. 24 p. (POLIOMYELITIS)

YUKUWN Y.A.

STEPANOV, F.N. (Saratov); KONYAKHINA, V.N. (Saratov); YAKUNIN, Yu.A.,

kandidat meditainskikh nauk (Moskva)

Clinical aspects of nervous disturbances in poliomyelitis. Vop.

okh.mat. i det. 1 no.1:14-20 Ja-F '56.

(POLICMYELITIS) (NERVOUS SYSTEM--DISEASES)

YAKUNIN, Yu.A., kandidat meditsinskikh nauk; IVANOV, N.R., kandidat

Clinical aspects of an abortive course of policayelitis. Vop.okh.
mat. i det. 1 no.1:25-30 Ja-F *56.

(POLIOMYELITIS)

YAKUNIN, YO.A.

USSR/Human and Animal Physiology - Nervous System.

V-12

Abs Jour

: Ref Zhur - Biol., No 1, 1958, 4489

Author

Yu.A. Yakunin

Inst

: Institute of the Higher Nervous Activity, Academy of

Sciences. USSR

Title

: Disturbances of the Higher Nervous Activity in Children

Suffering from Tubercular Meningitis.

Orig Pub

: Ser. patofiziol., 1956, 2, 299-314

Abstract

: Disturbances of the higher nervous activity progressed gradually in 15 patients aged 5 to 7: conditioned motor connections either failed to develop or were unstable. In the process of recuperation the instability of conditioned reaction prevailed for a long period of time along with slow formation of differentiations and successive inhibition. Complications entailed deterioration

Card 1./2

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962020004-7"

USSR/Human and Animal Physiology - Nervous System.

Abs Jour

: Ref Zhur - Biol., No 1, 1958, 4489

of neurodynamics. Restoration of the higher nervous activity frequently lagged behind the improvement of the general condition.

ZHUKOVA, Ye.K.; YAKURIN, Yu.A.

Pathogenesis and pathonorphology of respiratory disorders in poliomyelitis. Vop.okh.mat.i det. 3 no.2:11-17 Mr-Ap '58. (MIRA 11:3)

1. Iz kliniki nervnykh bolezney (zav.-prof. D.S.Futer) Gosudarstvennogo pediatricheskogo instituta RSFSR (dir.-kandidat meditsinskikh nauk V.N.Karachevtseva) i Detskoy klinicheskoy bol'nitsy No.1 (glavnyy Vrach-zasluzhennyy vrach RSFSR Ye.V.Prokhorovich) (RESPIRATION) (POLIOMYELITIS)

APPROVED FOR RELEASE. 09/01/2001

CIA-RDP86-00513R001962020004-7"

YAKUNIN, Yu.A.

Disorders of higher nervous activity in children with poliomyelitis [with summary in English]. Pediatrila 36 no.2:56-60 1 159.

(MIRA 12:4)

1. Iz Gosudarstvennogo nauchno-issledovatel'skogo pediatricheskogo instituta Ministerstva zdravookhraneniya RSFSR (dir. V.N. Karachevtseva) i kliniki detskikh nervnykh infektsiy (zav. - prof. D.S. Futer).

(POLIOMYELITIS, compl.
disord. of higher nerv. activity (Rus))
(CENTRAL NERVOUS SYSTEM, in various dispolio., disord. of higher nerv. activity (Rus))

SYSOYEVA, I.M.; YAKUNIN, Yu.A.

Recurrent acute poliomyelitis. Zhur.nerv.i psikh. 59 no.7:781-784
(MIRA 12:11)

1. Klinika ostrykh neyroinfektsiy (zav. - prof. D.S. Juter) Nauchno-issledovatel skogo pediatricheskogo instituta (dir. - kand.med.nauk A.P. Chernikova) Ministerstva z dravookhraneniya RSFSR na baze detskoy klinicheskoy bol'nitsy No.1 (glavnyy vrach Ye.V. Prokhorovich), Moskva. (POLIOMYELITIS, in inf. & child, recur. (Rus))

TAKUNIN, Turiy Alekseyevich; LAGUTINA, Ye.V., red.; BALDINA, N.F., tekhn.red.

[Poliomyelitis] Poliomielit. Moskva, Gos.izd-vo med.lit-ry, (MIRA 13:11)

(POLIOMYELITIS)

YAKUNIN, Yu.A. (Moskva)

Therapy for poliomyelitis patients with respiratory disorders.

(MIRA 13:11)

1. Iz kliniki detskikh neyroinfektsiy (zav. - prof. D.S. Futer)
i Gosudarstvennogo nauchno-issledovatel skogo instituta Ministerstva zdravookhraneniya RSFSR (dir. - doktor med.nauk A.P. Chernikova)
na baze Detskoy klinicheskoy bol nitsy No.l (glavnyy vrach - zasluzhennyy vrach RSFSR Ye.V. Prokhorovich).

(POLIOMYELITIS)

FUTER, D.S.; ZHUKOVA, Ye.K.; YAKUNIN, Yu.A.

Problem of tonsillectomy and poliomyelitis. Pediatriia 38 no.9:68-71 S 160. (MIRA 13:12)

l. Iz gosudarstvennogo pediatricheskogo instituta Ministerstva zdravookhraneniya RSFSR (dir. - A.P. Chernikova) i detskoy gorodskoy bol'nitsy No.1 (glavnyy vrach - zasluzhennyy vrach RSFSR Ye.V. Prokhorovich).

(TONSIIS—SURGERI) (POLIOMYELITIS)

ZHUKOVA, Ye.K.; YAKUNIN, Yu.A.

Pulmonary complications in acute poliomyelitis. Pediatriia no.10: 44-50 161.

1. Iz kliniki nervnykh bolezney (zav. - prof. D.S. Futer) Instituta pediatrii Ministerstva zdravookhraneniya RSFSR (dir. - kand. med.nauk A.P. Chernikova) i prozektury detskoy gorodskoy klinicheskoy bol'nitsy No.1 (glavnyy vrach - zasluzhennyy vrach RSFSR Ye.V. Prokhorovich).

(POLIOMYELITIS) (LUNGS-DISEASES)

YAKUNIN, Yu.A.

Respiratory disorders in connection with nervous system lesions in children. Zhur.nevr.i psikh. 62 no.7:993-999 '62. (MIRA 15:9)

1. Klinika detskikh neyroinfektsiy (zav. - prof. D.S.Futer)
Nauchno-issledovatel'skogo pediatricheskogo instituta (dir. - kand.
med.nauk V.P.Spirina) Ministerstva zdravookhraneniya RSFSR, Moskva.
(RESPIRATION) (NERVOUS SYSTEM--DISEASES)

YAKUNIN, Yu.A.

Bronchopulmonary changes in poliomyelitis patients with respiratory disorders during the acute and chronic periods. Vop.okh.mat.i det. 8 no.3:55-60 Mr 163.

1. Iz kliniki detskikh neyroinfektsiy (zav. - prof. D.S. Futer)
Gosudarstvennogo nauchno-issledovatel skogo pediatricheskogo
instituta (dir. - kand.med.nauk V.P. Spirina) Ministerstva zdrawookhraneniya RSRSR.

(POLICMYELITIS) (RESPIRATORY ORGANS-DISEASES)

YAKUNIN, Yuriy Aleksandrovich; SYSOYEVA, Iraida Mikhaylovna; POTAPOVA, I.N., red.; PRONINA, N.D., tekhn. red.

[Infantile paralysis - poliomyelitis] Detskii paralich - poliomielit. Moskva, Medgiz, 1963. 20 p. (MIRA 16:5) (POLIOMYELITIS)

T 38451 92	EWI(d)/EWI(1)/EWI(m)/EPF(n)-2/EWP(v)/EUP(k)/EWP(h)/EWF(1)
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	construction to provide the control of the control
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和關係的 (4)	

NOSYREV, V., nauchnyy sotrudnik; YAKUNINA, A.; ZYBIN, B., mladshiy nauchnyy sotrudnik

Poppy pests. Zashch. rast. ot vred. 1 bol. 10 no.8:54-55 '65. (MIRA 18:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut lekarstvennykh i aromaticheskikh rasteniy (for Nosyrev). 2. Przheval'skaya zonal'naya opytnaya stantsiya Vsesoyuznogo nauchno-issledovatel'-skogo instituta lekarstvennykh i aromaticheskikh rasteniy (for Zyubin).

YAKUNINA, A.V.; VALDAVINA, K.D., agronom

Codling moth in Tatarstan. Zashch. rast. ot vred. i bol. 8 (MIRA 16:7) no.2:50 F '63.

1 Zaveduyushchaya Chistopol'skim punktom signalizatsii i prognozov, Chistopol' (for Yakunina). 2. Chistopol'skiy punkt signalizatsii i prognozov, Chistopol' (for Valdavina). (Tatar A.S.S.R.—Codling moth)

STEPANOVA, N.A., YAKUNINA, G.A.

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Determination of microgram quantities of molybdenym and tungsten in mineral raw materials by means of toluene-3,4-dithiol. Zhur. anal.khim. 17 no.72858-864 0 62. (MIRA 15:12)

1. All-Union Scientific-Research Institute of Mineral Raw Materials, Moscow.

(Molybdenum-Analysis)(Tungsten-Analysis)

LYSENICO, A.P.; YAKUNINA, G.I.; PLYUSHIN, V.G.; ZELENTSOVA, M.I.

Production of n-tert-butyl phenol by alkylation of pterol with isobutylene in the presence of hydrogen fluoride. Knim. prom.
41 no. 12:887-891 D 165 (MIRA 19:1)

86499

53610

2209, 1373, 1153

S/079/60/030/011/004/026 B001/B066

AUTHORS:

Yesafov, V. I. and Yakunina, G. I.

TITLE:

Chemistry of Onium Compounds. III. Investigation of Thermal Decomposition of the Reaction Products of Tetrahydrofuran, q-Methyl Furan, Pyrrole, Thiophene With the Dietherate of Magnesium Iodide and With Magnesium Iodide

PERIODICAL:

Zhurnal obshchey khimii, 1960, Vol. 30, No. 11,

pp. 3572-3576

TEXT: V. I. Yesafov (Refs. 1,2) showed in his papers that the etherate MgI₂.2(C₂H₅)₂O is a very convenient agent for the relative estimation of the degree of aromaticity of the five-membered O-, N- and S-heterocyclic compounds. These heterocyclic compounds may be arranged in the following order on the basis of increasing difficulty in the release of the unshared electron pair of heteroatoms with formation of "onium compounds"; and for silvan, pyrrole, and thiophene with respect to the degree of stability increase of the electron sextor of heterocycles:

Card 1/4

86499

Chemistry of Onium Compounds. III. Investigation S/079/60/030/011/004/026 of Thermal Decomposition of the Reaction B001/B066 Products of Tetrahydrofuran, &-Methyl Furan, Pyrrole, Thiophene With the Dietherate of Magnesium Iodide and With Magnesium Iodide



This order is further confirmed by the experimental data of thermal decomposition of the reaction products of the mentioned heterocyclic compounds with anhydrous magnesium iodide. Tetrahydrofuran forms with the latter a compound which decomposes on heating by cleaving the heterocycle (Ref. 5). Silvan and pyrrole give, only on heating with magnesium iodide, compounds which decompose at high temperature, also under cleavage of the heterocycles. Also on prolonged heating, thiophene does not react with magnesium iodide. It follows from this that furan and pyrrole, as well as their compounds, maintain the "benzoide-like" state of electrons in the heterocycles only at low temperatures, with increasing temperature, however, this state is disturbed, in which connection the unshared electron pairs of oxygen and nitrogen are set free, and stable onium compounds are formed with MgI:

Card 2/4

86h29

Chemistry of Onium Compounds, III. Investigation 5/079/60/030/011/004/986 of Thermal Decomposition of the Reaction 8/01/8066 Products of Tetrahydrofuran, w-Methyl Fuvan, Pyrrole, Thisphane With the Dietherate of Magnesium Iodide, and With Magnesium Iedide

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which also explains the decomposition of C- and N-heterocycles on heating. It was thus shown that 1) tetrahydrofuran displaces the disthyl ether from MgI₂.2(O₂H₅)0 to form MgI₂.2O₄H₈O which is decomposed under cleavage of a mplecule of tetrahydrofuran, that 2) silvam and pyrrole displace one molecule of ether from MgI₂.2(O₂H₅)2O, and give compounds with MgI₂ which decompose under cleavage of the heterocycles, that 3) thicphene reasts neither with MgI₂.2(O₂H₅)2O nor with MgI₂. It is assumed that the participation of heteroatoms in the formation of heterocycles increases their capability of forming onium compounds. This assumption is supported by the fact that dioxane and tetrahydrofuran give with MgI₂ stabler compounds than simple alighatic ethers. C. I. Kusnetsova, I. T. Beliskiy, Card 3/4

86499

Chemistry of Onium Compounds. III. Investigation 5/079/60/050/011/004/026 of Thermal Decomposition of the Reaction 2001/2066 Products of Tetrahydrofuran, of-Methyl Furan, Pyrrole, Thiophene With the Dietherate of Magnesium Iodide and With Magnesium Iodide

and S. Z. Tayts are thanked for making available the samples. There are 11 references: 5 Soviet, 4 US, 2 British, and 2 German,

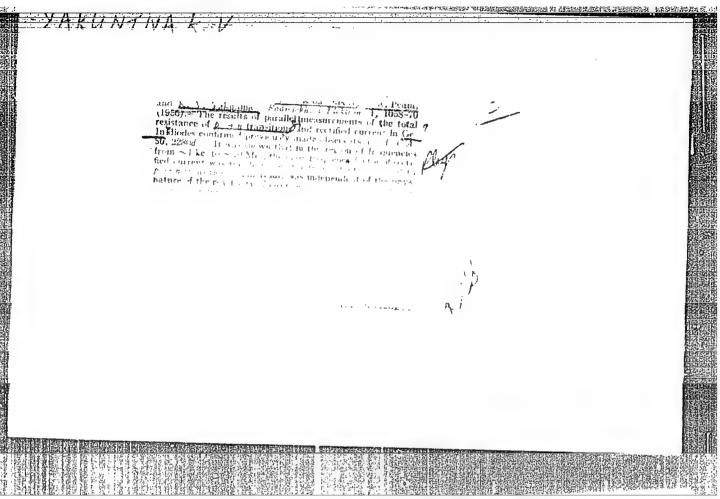
ABSOCIATION: Ural'skiy gosudarstvennyy universitet (Ural State University)

SUBMITTED: August 18, 1959

Card 4/4

	L 08461-67 EWP(1)/EWT(m) LIP(c) RM ACC NR: AP6030854 (A,N) SOURCE CODE: UR/0191/66/000/009/0047/0049
\cdot	AUTHOR: Malinin, L. N.; Yakunina, K. P.
	ORG: none
	TITIE: Degradation and stabilization of cellulose acotobutyrate
	SOURCE: Plastichoskiye massy, no. 9, 1966, 47-49
- 1	TOPIC TAGS: polymer degradation, collulose plastic, UV absorption, light aging, anti- oxidant additive, stabilizer
	ABSTRACT: The kinetics of photodegradation and photostabilization of cellulose aceto-butyrate (CAB) containing 40-43% and 26-27% butyric acid were studied on thoroughly butyrate (Image in the containing dried films 100-110 µ thick obtained from 15% acetone solutions. The films containing dried films 100-110 µ thick obtained from 15% acetone solutions. The films containing dried films 100-110 µ thick obtained from 15% acetone solutions were made on apparatus at 50-60 °C and a humidity of 50-60%. Viscometric measurements were made on apparatus at 50-60 °C and a humidity of 50-60%. Viscometric measurements were made on 20.25% acetone solutions with an Ostwald viscometer. An extensive degradation of CAB was observed after 24 hr. The change in the relative viscosity of CAB was determined was observed after 24 hr. The change in the molecular weight was plotted against the duration of exposure in the AIPST-2-4-2 apparatus. Resorcinel menobenzoate and hydroquition of exposure in the AIPST-2-4-2 apparatus. Resorcinel menobenzoate and hydroquition of exposure in the AIPST-2-4-2 apparatus. Orig. art. has: 4 figures, 1 table and 1 formula.
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YAKUNINA, K.V. 109-9-13/15 AUTHORS: Penin, N.A. and Yakunina, K.V. Dependence of the Capacitance and Resistance of Alloy Junction Germanium Diodes on the Frequency and the Positive Bias Current (Zavisimost Yemkosti i soprotivleniya splavnykh . TITLE: germanievykh diodov ot chastoty i toka polozhitel nogo smeshcheniya) PERIODICAL: Radiotekhnika i Elektronika, 1957, Vol.II, Nr 9, pp.1200 - 1210 (USSR) It is assumed that the equivalent AC circuit of a p-n junction can be represented by a series resistance, r, followed by a resistance, $R(\omega)$ in parallel with a capacifollowed by a resistance, $R(\omega)$ is the so-called diffusion tance $C_D(\omega)$ and C_3 where C_D is the so-called diffusion ABSTRACT: capacitance and C3 is the capacitance of the barrier layer. C3 are given by (Refs.l and 2): (1)Card 1/4

109-9-13/15

Dependence of the Capacitance and Resistance of Alloy Junction Germanium Diodes on the Frequency and the Positive Bias Current.

$$C_{D} = \frac{\alpha (I + I_{S})}{\sqrt{2}} \frac{\gamma}{\sqrt{\sqrt{1 + \omega^{2} \gamma^{2} + 1}}}$$
 (2)

$$c_3 = c_{30} \left[1 - \frac{1}{\alpha \varphi_K} \ln \left(\frac{I}{I_S} + 1 \right) \right]^{-\frac{1}{2}}$$
, (3)

where α is $\frac{q}{kT}$, I_S is the saturation current, I is the positive biasing current, $\mathcal T$ is the lifetime of the holes and ω is the angular frequency. ϕ_k is expressed by Eq.(4) where p is the hole concentration in the p region and n_n is the electron concentration in the n region and n_i is the concentration of electrons or holes in germanium. From Eqs.(1) and (2) it is shown that:

Card 2/4

109-9-13/15

Dependence of the Capacitance and Resistance of Alloy Junction Germanium Diodes on the Frequency and the Positive Bias Current.

$$\sqrt{\frac{c_D}{R}} = \alpha (I + I_S) \sqrt{\frac{\tau}{2}} \qquad (9)$$

from which it is possible to determine the lifetime $\mathcal T$ at a given I if the function $\mathcal T_D$ is known. The above

theoretical formulae were checked experimentally. following measurements were made: (1) impedance of the diode as a function of frequency at I = const (Fig.5), (2) relationship between the real and imaginary components of a p-n junction at w = const (Fig.6), (3) total capacitance of the diode as a function of frequency for various biasing currents (see Figs.7 and 9), (4) resistance as a function of frequency for various biasing currents (see Figs.8 and 9), (5) resistance and capacitance as a function of I for various resistivities of the diode material (Figs. 10 and 11), as a function of I for various types of

Card 3/4

109-9-13/15

Dependence of the Capacitance and Resistance of Al. Junction Germanium Diodes on the Frequency and the Positive Lias Current.

diodes (Fig.12) and (7) the relationship between R and the total capacitance C for various I. It was found that the measured results are in very good agreement with the experimental values.

There are 13 figures, 1 table and 4 references, 2 of which are Slavic.

SUBMITTED: February 20, 1957.

AVAILABLE: Library of Congress.

Card 4/4

PAVLC SKIY, L.L.; Prinimali uchastiye: MATYUK, F.M.; GOGOLINA, L.I.; SERGUNINA, V.A.; SIDORINA, N.I.; LIBERMAN, A.B.; ROMANOVA, L.V.; PROTSENKO, T.V.; YAKUNINA, L.G.

Selecting the optimum system for drying paint coatings in thermosetting dryers. Lakokras.mat. i ikh prim. no.2;45-48 (MIRA 17:4)

TAKUNINA, Lali; ZALESKIY, A.I. [Zaleski, A.I.], red.; KABASHNIKOV,

K.P. [Kabashnikau, K.P.], red.; CHIORIMOV, I. [Chyhrynau, I.],

red.izd-va; VALAKHANOVICH, I., tokhn.red.

[Sashas made in Slutsk] Slutskiia paissy. Minsk, Vyd-va Akad.

navuk BSSH, 1960. 237 p.

(Sashas (Costumo))

(Slutsk-Silk manufacture and trade)

S/103/62/023/002/005/015 D230/D301

16.6800 (1250, 1327, 1329, 2403)

AUTHORS:

到。但我们就是我的最大的的数据是有数据的的是,因为这些数据的数据的数据的数据是是是是是一个数据的。

Kosarev, A.A., Martynov, A.V., and Yakunina, L.I.

(Voronezh)

A method of calculating complex roots of algebraic TITLE:

equations by means of a simulator

Avtomatika i telemekhanika, v. 23, no. 2, 1962, PERIODICAL:

163 - 168

TEXT: A method is proposed for determining all complex roots without a shift in the level, distortion or readjustment of the circuit, the results thus obtained have adequate accuracy. The scaling of the variables, an important factor in simulating, is examined and certain recommendations are made. The method is developed on the basis of the equation $x^n + a_1x^{n-1} + \cdots + a_n = 0$; all complex roots

are found by means of a simulator of a general form. Boundaries de- X fining the root distribution for the model equation and roots locating areas are discussed. Using the method proposed it is necessary that in evaluating complex root values the real quantities be Card 1/2